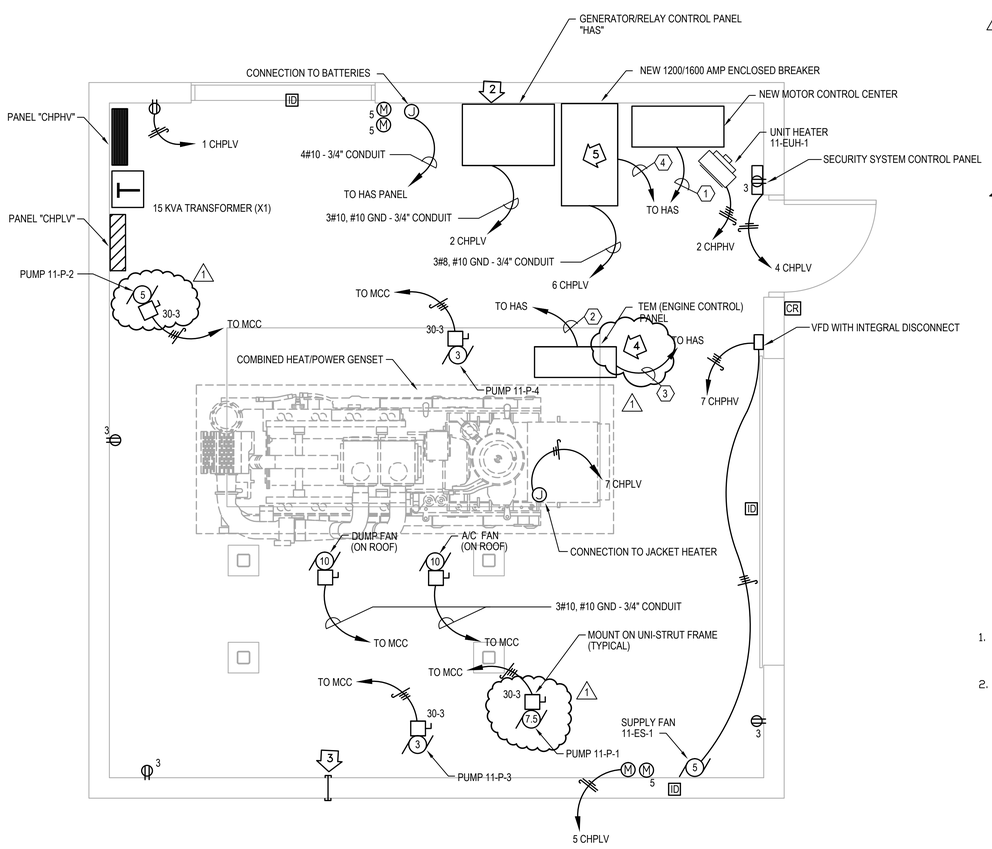


2 BUILDING 11 FLOOR PLAN - POWER
SCALE: 1/2" = 1'-0"

1 CONTROLS SECURITY SCHEDULE

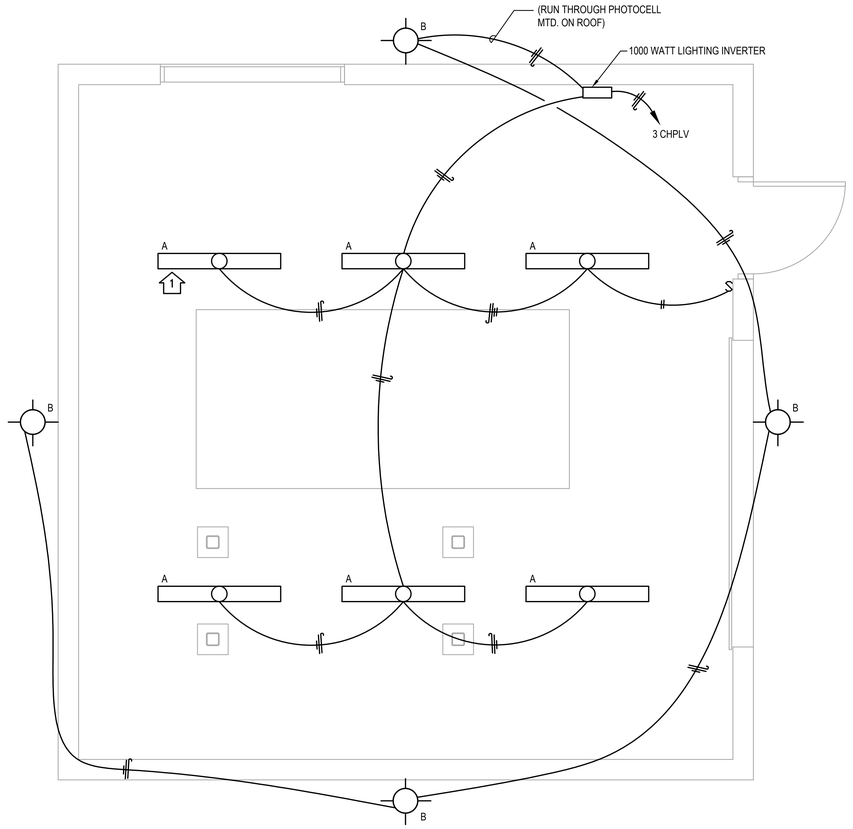
1. 90#14 - 4" CONDUIT
2. (2) 3 CONDUCTOR #18 SHIELDED, (4) #14, (2) #10 - 2" CONDUIT
3. (9) #10, (2) #12, (4) #14 - 2" CONDUIT
4. (40) #14, (4) #10, - 2" CONDUIT

REFERENCE NOTES (THIS SHEET ONLY):

1. MOUNT FIXTURES 10' AFF, COORDINATE LOCATIONS WITH MECHANICAL/PIPING SYSTEMS. (TYP)
2. RUN (1) 3" CONDUIT FROM THIS CONTROL PANEL TO EXISTING MAIN SWITCHBOARD "SB-V1" IN ROOM FB1100 OF EXISTING MAIN BUILDING VIA THE NEW UTILITY TRENCH INDICATED ON CIVIL SHEETS.
   RUN (1) 3" CONDUIT FROM THIS CONTROL PANEL TO THE EXISTING MAIN BOILER CONTROL ROOM IN EXISTING MAIN BUILDING VIA THE NEW UTILITY TRENCH INDICATED ON CIVIL SHEETS.
   RUN (2) 2" CONDUITS FROM THIS CONTROL PANEL TO MCC "GN-1".
3. PROVIDE (2) 3/4" IMC CONDUITS AT 18" AFF THROUGH WALL FOR FUTURE CONNECTION TO INTELLIGENT METER. CLEAN AND CAP BOTH ENDS.
4. PROVIDE HORIZONTAL AND VERTICAL CABLE-TRAY AS RECOMMENDED BY MANUFACTURER FOR CABELING BETWEEN TEM (ENGINE CONTROL) PANEL AND GENSET.
5. PROVIDE ELECTRICAL METER (VOLTS, AMPS, WATTS, PEAK WATTS, AVERAGE WATTS). CONNECT TO EXISTING AUMS INSTALLED BY SCHNIEDER. METER TO MEET THE TYPE AND PERFORMANCE REQUIREMENTS OF THE EXISTING AUMS.

GENERAL NOTES: (THIS SHEET ONLY):

1. PROVIDE GENERATOR ANNUNCIATOR PANEL AS SPECIFIED IN MAIN BOILER CONTROL ROOM. PROVIDE CABLING IN CONDUIT AS RECOMMENDED BY MANUFACTURER.
2. CONTRACTOR SHALL EXPAND THE EXISTING HOSPITAL OPEN OPTION SECURITY SYSTEM. PROVIDE NEW PANEL AND CONTROLS IN THE CHP BUILDING WITH "DOOR FORCE" AND "DOOR HOLD" CONTROLS ON THE MAN DOOR AND A PUSH BUTTON "BYPASS" FOR THE ROLL UP DOOR (1 HOUR DELAY) WITH REPORT TO SECURITY. RUN 6-STRAND MUTI-MODE FIBER FROM THE NEW SECURITY PANEL TO THE EXISTING SECURITY CONTROL BOX (SEE SHEET ES101 FOR LOCATION) IN UNDERGROUND 2" COMMUNICATIONS CONDUIT. REPLACE THE EXISTING CONTROLLER IN THE EXISTING SECURITY CONTROL BOX WITH A OPEN OPTIONS "SSP-D2". PROVIDE ALL HARDWARE, PROGRAMMING, SENSORS, ENCLOSURES, OPERATION OF ELECTRIFIED DOOR HARDWARE, CARD READER AND CIRCUITRY CIRCUITRY, 24 HOUR BATTERY BACK-UP, AND ALL NECESSARY APPURTENANCES AS REQUIRED TO INTERFACE NEW SECURITY PANEL WITH THE EXISTING CAMPUS SECURITY SYSTEM.



3 BUILDING 11 FLOOR PLAN - LIGHTING
SCALE: 1/2" = 1'-0"

PANELBOARD CHPHV SCHEDULE

200 AMP MAIN CIRCUIT BREAKER 277 /480 VOLTS 3 PHASE, 4WIRE, 14,000 K.A.I.C. MIN., SURFACE MTD. 60HZ.

LOAD SERVED	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	BKR. SIZE	CKT. NO.	PHASE A B C	CKT. NO.	BKR. SIZE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	LOAD SERVED
PANEL "CHLPV"	6540			25/3	1		2	20/3	3351			11-EUH-1
-		3100		-	-		-	-		3351		-
-			3200	-	-		-	-			3351	-
FAN 11-SF-1	2105			20/3	7		8	20/3				SPARE
-		2105		-	-		-	-				-
-			2105	-	-		-	-				-
MCC CHP	19878			125/3	13		14	20				SPARE
-		19878		-	-		16	20				SPARE
-			19878	-	-		18	20				SPARE
SPARE				20/3	19		20	100/3	0			TVSS
-				-	-		-	-		0		-
-				-	-		-	-			0	-
SUBTOTAL	28523	25083	25183						3351	3351	3351	
TOTALS			PHASE A 31874			PHASE B 28434	PHASE C 28534		TOTAL 88842 VA			TOTAL AMPS: 185.39

PANELBOARD CHPLV SCHEDULE

50 AMP MAIN CIRCUIT BREAKER 208 /120 VOLT 3 PHASE, 4WIRE, 10 K.A.I.C. MIN., SURFACE MTD. 60HZ.

LOAD SERVED	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	BKR. SIZE	CKT. NO.	PHASE A B C	CKT. NO.	BKR. SIZE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	LOAD SERVED
RECEPTACLES	540			20	1		2	40	4000			GEN AUX (HAS) PANEL
LIGHTING INVERTER		1000		20	3		4	20		100		SECURITY PANEL
DAMPERS			200	20	5		6	30			3000	GEN BREAKER PANEL
JACKET WTR HTR	2000			20/2	7		8	20				SPARE
-		2000		-	-		10	20				SPARE
SPARE				20	11		12	20				SPARE
SPARE				20	13		14	20				SPARE
SPARE				20	15		16	20				SPARE
SPARE				20	17		18	20				SPARE
SPARE				20	19		20	40/3	0			TVSS
SPARE				20	21		-	-		0		-
SPARE				20	23		-	-			0	-
SUBTOTAL	2540	3000	200						4000	100	3000	
TOTALS			PHASE A 6540			PHASE B 3100	PHASE C 3200		TOTAL 12840 VA			TOTAL AMPS: 44.6

1 PANEL BOARD SCHEDULES - POWER
SCALE: 1/2" = 1'-0"

-	-
-	-
-	-
-	-

CONSULTANTS:

ARCHITECT/ENGINEERS:

Drawing Title: FLOOR PLAN COMBINED HEAT AND POWER GENERATOR ROOM - ELECTRICAL

Project Title: MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN

Project Number: 614-16-114

Building Number:

Office of Construction

three inches = one foot 6" | one and one half inches = one foot 6" | one inch = one foot 6" | three quarters inch = one foot 6" | one half inch = one foot 0" | three eighths inch = one foot 0" | one quarter inch = one foot 0" | three quarters inch = one foot 6" | one inch = one foot 6" | 9-02-16 04:04:53 PM mcollins